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Under the Paperwork Reduction Act of 1995, no pr	;. U.S. Pater ersons are required to respond to a collection	t and Trademark Office	: U.S. D	PTO/SB/21 (05-03) gh 04/30/2003. OMB 0651-0031 DEPARTMENT OF COMMERCE avs a valid OMB control number.
TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number Filing Date First Named Inventor Art Unit Examiner Name	10/782,075 02/19/2004 Sean D. Monahan		
Total Number of Pages in This Submission >1	00 Attorney Docket Number	Mirus.030.16.6		
E	NCLOSURES (Check all that	t apply)		
Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attomey, Revocation Change of Correspondence Addre Terminal Disclaimer Request for Refund CD, Number of CD(s) emarks	to G Appropriate A	eal Cor ppeals eal Cor eal Not prietary	osure(s) (please
	RE OF APPLICANT, ATTORN	EY, OR AGENT		
Firm or Individual name Mark K. Johnson Signature 0 //05/2005 CERT	IFICATE OF TRANSMISSION	I/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as express mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.				
Typed or printed name Kirk Ekena Signature			Date	01/05/2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Sean D. Monahan, Vladimir G. Budker, Lisa Nader,)
Vladimir Subbotin, Jon A. Wolff)
Serial No.: 10/782,075)
Filed: 02/19/2004)
Group Art Unit:)

For: Covalent Modification of RNA for In Vitro and In Vivo Delivery

INFORMATIONAL STATEMENT

Commissioner of Patents P.O. BOX 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. 1.56, applicant hereby calls to the attention of the Patent and Trademark Office the publications listed on the attached PTO 1449. This information statement supplements the previously filed information statement.

US patent

Patent No.	Applicant	Issue date
6,262,252	Wolff JA et al.	07/17/2001
5,962,675	Beigelman L et al.	10/05/1999
6,541,450	Beigelman L et al.	09/17/2002
6,159,951	Karpeisky A et al.	12/12/2000

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- 2. Chiu YL et al. "RNAi in human cells: basic structural and functional features of small interfering RNA." Molecular Cell 2002 Vol 10 No. 3 pp. 549-561.
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- 4. Duxbury MS et al. "RNA interference: a practical approach." J Surgical Research 2004 Vol 117 No. 2 pp. 339-344.
- 5. Greene TW et al. "Protecting Groups in Organic Synthesis 3rd Ed.", 1999 John Wiley and Sons, Inc, New York, pp. 112-145, 600-601.
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 Mammalian Cells of Mismatches and the Introduction of Chemical Modifications at the 3'Ends of siRNAs." Antisense and Nucleic Acid Drug Development 2002 Vol. 12 pp. 301309.
- 7. Hermanson GT. "Bioconjugate techniques." 1996 New York, Academic Press pp 128-129.
- 8. Micura R "Small interfering RNAs and their chemical synthesis." Angew Chem Int Ed Engl 2002 Vol 41 No. 13 pp. 2265-2269.
- 9. Mittal V "Improving the efficiency of RNA interference in mammals." Nature Review Genetics 2004 Vol. 5 No. 5 pp. 355-365.
- 10. Naganawa A et al. "Synthetic Studies on Tautomycin Synthesis of 2,3-Disubstituted Maleic-Anhydride Segment." Tetrahedron; 1994 Vol. 50 No. 30 pp. 8969-8982.
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- 12. Rozema DB et al. "Endosomolysis by masking of a membrane-active agent (EMMA) for cytoplasmic release of macromolecules." Bioconjug Chem. 2003 Vol. 14 No. 1 pp. 51-57.
- 13. Zhang G et al. "High levels of foreign gene expression in hepatocytes after tail vein injections of naked plasmid DNA." Hum Gene Ther. 1999 Vol. 10 No. 10 pp. 1735-1737.

Applicant respectfully requests that these publications be expressly considered during the prosecution of this application and made of record herein and appear among the 'References Cited' on any patent to issue herefrom.

Respectfully submitted,

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New Berlin, WI 53151-0644

(414) 821-5690

I hereby certify that this correspondence is being sent by United States Postal Service mail to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on: 01-05-2005.

Kirk Ekena

INFORM STATEM	ATION D	ISCLOSURE A	Attorney Docket No.: Mirus.030.16.6		1	Serial No.: 10/782,075			
		OTFE	Applicant: Sean D. Monahan,			Group:			
FORM P	FURIVI P 10-1449			Group.					
Vladimir Subbotin, Jon A. Wolff			Exa	Examiner:					
	4	TE MADELLINE	U.S. PA	TENT	DOCUMENTS				
Exmnr Intl	Seq	Patent Number	Issue Date		Patentee	Class	Sub Class	Filing Data	
Inu	Seq			W-1	·			Filing Date	
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		FOREIGN PATE	NT OR PUBL	ISHE	D FOREIGN PATENT AF	PPLICA	TION		
			Publica		Country or		Sub	Transl.	
		Document Number	er Date	:	Patent Office	Class	Class	yes no	
		OTHER DOCUME	NTS (Includi	ng Aı	uthor, Title, Date Pertinen	t Pages	, etc.)		
		Amarzguioui M	et al. "Tolera	nce fo	or mutation and chemical			n a siRNA."	
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	Dinand E et al. "Competitive reactions during amine addition to cis-aconityl anhydride." Australian Journal of Chemistry; 2002 Vol. 55 No. 6-7 pp. 467-474.								
	Duxbury MS et al. "RNA interference: a practical approach." J Surgical Research 2004 Vol 117 No. 2 pp. 339-344.						search 2004		
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		and Sons, Inc, N				(D)I	A 15 1 - C	N 14 . 1	
	Hamada, M. "Effects on RNA Interference in Gene Expression (RNAi) in Cultured								
	Mammalian Cells of Mismatches and the Introduction of Chemical Modifications at the 3'-Ends of siRNAs." Antisense and Nucleic Acid Drug Development 2002 Vol. 12 pp.								
		301-309.	is. Thirdsens	o unc	Truciolo ficia Brag Bore	лоринон	1 2002	Voi. 12 pp.	
	Hermanson GT. "Bioconjugate techniques." 1996 New York, Academic Press pp 128- 129.								
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,	Zhang G et al. "High levels of foreign gene expression in hepatocytes after tail vein injections of naked plasmid DNA." Hum Gene Ther. 1999 Vol. 10 No. 10 pp. 1735-1737.								

Examiner:	Date Considered: